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September 10, 1998

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Mr. Michael McAteer, WAM (5HSRL-6J)
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, IL 60604-3590

Subject: Monthly Progress Report No. 8
CH2M HILL/E&E Oversight of Remedial Action Activities
Enviro-Chem (ECC) Superfund Site, Zionsville, Indiana
WA No. 008-RXBF-0530, Contract No. 68-W6-0025

Dear Mr. McAteer:

Enclosed is a copy of Progress Report No. 8 for the August 1998 reporting period and the corresponding photographic log.

Please call me at (513) 762-7605 if you have any questions.

Sincerely,

CH2M HILL

Timothy D. Harrison, P.E.
Site Manager

CIN\PRO8

Enclosures

c: Stephen Nathan/PO/USEPA; 5HSM-5J (w/o enclosure)
Peggy Hendrixson/CO/USEPA; 5MCC-10J (w/o enclosure)
Ike Johnson/PM/MKE
Al Erickson/RTL/MKE
Dan Lynch/Environment & Ecology
Gail Gill/AA/MKE

ECC RA Oversight Progress Report No. 8 (August 1998)

CH2M HILL Remedial Action (RA) Oversight Observation

This is the eighth RA oversight progress report submitted by CH2M HILL for RA activities at the Enviro-Chem (ECC) Superfund Site in Zionsville, Indiana. This progress report covers the period from August 1 through August 31, 1998.

Versar Inc., the ECC Trust's (Trust) prime remediation contractor, and several of their subcontractors performed field activities during the reporting period. Full-time oversight was provided at the ECC site during this reporting period when significant activities were in progress at the request of U.S. EPA. Dan Lynch/Ecology & Environment, Inc. (CH2M HILL subcontractor) provided oversight from August 3 through August 21. No oversight was performed the week of August 24 because significant site activities ceased due to contractor having difficulty with the placement of the clay cap. The site contractor stopped cap installation while the Trust evaluated construction options.

Progress Made by Trust's Contractor This Reporting Period

The line items below list the status of a particular remediation task identified in the Trust's Revised Project Schedule dated June 1, 1998. Line items not listed were completed prior to this reporting period.

- 43. Construct Perimeter Roads—This item is in progress, but behind schedule. Roads have been "roughed in" but are not final based on specifications. This is not a critical path issue and has been delayed while the Trust address critical path issues.
- 44. Clean and Repair Erosion Ditches—The ditches along the west boundary were cleaned and the revetment was placed north of the entrance gate to the northwest corner. The ditch south of the gate was delayed due to a water seep of unknown origin being contained in this area.
- 45. Install Culvert System—This item was partially completed prior to this reporting period. No progress was made on this item during this period. The remainder of the culverts are expected to be installed during the next reporting period.
- 62. Pipe—This item was completed during this reporting period.
- 63. Wire—The wiring of the process building and the storage tank controls continued during this reporting period. Wiring of the SVE system process equipment will continue into the next reporting period.
- 64. SVE System Testing—This item was scheduled for completion prior to this reporting period. The SVE system is in place and some testing has been done and will continue until the cap is in place and the SVE system is fully operational.

- 65. SVE Startup and Shakedown (native soil)— This item was continued during this reporting period and will continue until the cap installation is completed.
- 66. SVE System Complete System— System is complete except for some control instrumentation and PLC programming. Installation of the system is expected to continue during the next reporting period. The SVE must be fully operational and running by December 2, 1998 per Schedule Z of Exhibit A of the Consent Decree.
- 67. WWT System Testing— This item was completed during this reporting period. After the completion of the southern pad excavation the mobile WWTP was removed from service, and prepared for off site shipment. The stationary system was operated on an as needed basis to support the SVE system and other site water sources. Tanks #1 and #3 were cleaned for demobilization. Two of the three “frac” tanks were cleaned and removed from site.
- 70. Pumping and Treating of Pondered Water— This activity was initiated prior to this reporting period, continued through this period, and is expected to continue into the next period as necessary.
- 71. Wastewater Storage and Treatment System Complete— The system is near completion. Some minor instrumentation and control functions must still be programmed into the programmable logic controller.
- 73. **North Treatment Area Phase 1 (Existing Soils)**— Activities continue as described in item 75 below.
- 75. Layout— This activity was completed during this reporting period.
- 78A. Install Keyway Berm — The small portion that was remaining adjacent to the decontamination pad was completed during this reporting period as part of the ramp installation.
- 85. Air monitoring — Only the Health and Safety Officer for safety plan conformance conducted air monitoring during this period. The continuous sampling was stopped upon the completion of the south pad excavation.
- 87. **South Concrete Pad Area**— Work is discussed in item 89 below.
- 89. Install Well Points to Dewater Area— This activity was completed prior to this reporting period. Four of the six were closed during this reporting period. Two were left to provide water for grass watering activities.
- 112 - 117. Southern Pad Excavation— Excavation and sampling was completed prior to this period. Backfilling of the excavation was near completion during this reporting period and is expected to be completed during next reporting period.
- 118. Install liner on North Wall— This item was completed during this reporting period.
- 119. Backfill Liner Area — This activity was completed during this reporting period.
- 121. South concrete Pad Area Complete — Most of the area was backfilled and some grading was completed. Topsoil has not been placed. The drainage ditches have not been placed.

124. SVE Trenching – The Phase II SVE trenching was completed during this reporting period.
125. Connect Phase I and Phase II underground piping systems. – This activity was completed during this reporting period.
126. Complete Stage 1 Landfill Cover – This activity was started during this reporting period. The material for the cap did not meet the gradation specification nor could the required permeability be achieved. The contractor stopped this activity for further evaluation. It is expected to resume during the next reporting period.

All other schedule line items are to be initiated after this reporting period.

Problems Resolved by the ECC Trust's Contractor

None.

Problem Areas Remaining

1. During geotechnical drilling of the southern concrete pad area, the Trust discovered an area of high VOCs (based on PID readings of the soil using an OVM) that they did not anticipate. This area was not intended to be remediated by the Trust under the current remedial design. Five borings were completed to further investigate the area. Three of the borings showed no obvious contamination (based on PID headspace readings performed by Trust). The remaining two borings showed indications of contamination and sampling/treatment wells ("hot spot" wells) were installed.

Prior to this reporting period the test results from the two contaminated wells showed that the levels had significantly increased after initial contaminant reduction implying that a larger, non-local contaminant source may be present. The Trust's plan is to complete the south pad excavation in an attempt to cut off the potential source(s) from the "hot spot" wells and then retreat with Fenton's reagent. No action has been taken during this reporting period.
2. During the excavation of the southern concrete pad, a sand seam containing water and free product was found in the southeast corner of the excavation. The seam is located at about fourteen feet below ground surface and appears to extend southward. The Trust extended the lateral excavation about 8 feet south of the remedial boundary in the area of the sand seam to see if it would "pinch out". The seam did not diminish but the excavation was halted by the Trust's engineer because of the close proximity of the "frac" tanks and the concern for sidewall stability of the excavation. This new "hot spot" will be addressed after further evaluations by the Trust in conjunction with issue number 1 described above. A remediation plan for this issue is expected to be presented by the Trust in September.
3. A seep was noted from the east wall of the west drainage ditch in the area south of the site access gate. The seep appears to be about one foot above the invert of the ditch and flowing at about 1 gallon per minute. The origin of the water is unknown. A representative of Handex collected a sample of the water. A perpendicular berm was built across the ditch to contain the water and prevent it from flowing into

"Unnamed" ditch. As the ditch filled, the water was pumped into 'frac' tanks to await sample results. Sample results are expected by the Trust by mid-September.

4. The contractor constructed two test pads for the Stage I cap on the northern SVE treatment area where the excavated southern pad soils were placed. Testing of the pads found that the contractor was not able to achieve the compaction and permeability required by the project design specifications. This was likely due to the wet and poorly compacted subbase material beneath the test pads. The Trust ceased cover installation and is currently evaluating methods to build a Stage I cover to meet specifications. This is a critical path item and a significant delay could result in loss of construction favorable weather and impact the Schedule Z requirement. The Stage I cover is required to be installed by December 2, 1998 per Schedule Z.

Trust's Activities Planned

The following activities are expected to begin, or be completed, during the next reporting period based on Versar's current project schedule. The line items below list the status of specific remediation line items identified in the Trust's Revised Project Schedule dated June 1, 1998.

43. Construct Perimeter Roads— Complete construction of the interior site access road.
44. Clean and Repair Erosion Ditches—Complete construction of site erosion ditches per the specifications.
45. Install Culvert System—Complete construction of the site culvert system.
- 62-64. Process Building Equipment—Continue wiring SVE process equipment and ancillary plumbing and wiring of the process building. Functional testing of some equipment is also expected.
126. Complete Stage 1 Landfill Cover—Resume work and complete the phase 1 cover.
127. Commence SVE Operations — After completion of the stage 1 cover, start continuous operation of the SVE system.

Other line items shown on the contractor schedule are expected to take place after the next reporting period and are therefore not included in this report.

ECC Trust's Schedule Status

Based on the Trust's revised project schedule dated June 1, 1998, it appears that progress is about 9 weeks behind schedule at the end of this reporting period.